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## CLAIMS

## What is claimed is:

5 1. A method for obtaining information useful for management of a composite e-service, comprising the steps of:

generating a set of management information for each of a set of service interactions among a set of e-services in the composite e-service, the e-services arranged in a tree structure including one of the e-services that provides a portal to the composite e-service;

transferring the sets of management information up the tree structure to the e-service that provides the portal and combining the management information at each of a set of levels of the tree structure.

- 2. The method of claim 1, wherein the each service interaction comprises a request from one of the eservices and a response from a sub-service in the tree that handles the request.
- 3. The method of claim 1, wherein the each set of management information is contained in a management object.
  - 4. The method of claim 3, wherein the management object has the form of an XML document.
  - 5. The method of claim 1, wherein the step of combining the management information comprises the step of combining the management information using an

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indicator carried in each set of management information that identifies a service interaction between a client and the portal.

- 5 6. The method of claim 1, wherein the management information includes a time taken by the corresponding e-service to complete a corresponding request.
- 7. The method of claim 1, wherein the management information includes an indication of errors that occurred in the corresponding e-service while servicing a corresponding request.
- 15 8. The method of claim 1, wherein the management information includes a set of costs incurred in the corresponding e-service while servicing a corresponding request.
- 9. The method of claim 1, wherein the management information includes an indication of security violations that occurred in the corresponding eservice while servicing a corresponding request.

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10. The method of claim 1, wherein the management information includes an indication of resource usage in the corresponding e-service while servicing a corresponding request.

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11. A composite e-service comprising a set of e-services arranged in a tree structure including one of the e-services that provides a portal to the

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composite e-service, each e-service having a manager such that the managers collectively generate a set of management information for each of a set of service interactions among the e-services and transfer the sets of management information up the tree structure to the e-service that provides the portal while combining the management information at each of a set of levels of the tree structure.

10 12. The composite e-service of claim 11, wherein each e-service includes an application that processes the corresponding service interaction while the corresponding manager gathers the corresponding management information.

13. The composite e-service of claim 11, wherein the managers assemble the management information into a set of management objects.

- 20 14. The composite e-service of claim 13, wherein each management object has the form of an XML document.
- 15. The composite e-service of claim 11, wherein the managers combine the management information using an indicator carried in each set of management information that identifies a service interaction between a client and the portal.
- 16. The composite e-service of claim 11, wherein the management information includes a time taken by the corresponding e-service to complete a corresponding request.

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- 17. The composite e-service of claim 11, wherein the management information includes an indication of errors that occurred in the corresponding e-service while servicing a corresponding request.
- 18. The composite e-service of claim 11, wherein the management information includes a set of costs incurred in the corresponding e-service while servicing a corresponding request.
- 19. The composite e-service of claim 11, wherein the management information includes an indication of security violations that occurred in the corresponding e-service while servicing a corresponding request.
- 20. The composite e-service of claim 11, wherein the management information includes an indication of resource usage in the corresponding e-service while servicing a corresponding request.